

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

## INDEX

### A

Abandon catch basin, valve chamber, manhole or inlet .....	2-02.3(4)
Abandon and fill, and plug pipe .....	2-02.3(5)
Abbreviations, associations and miscellaneous .....	1-01.2(1)
Abbreviations, items of work and units of measurement .....	1-01.2(2)
Abbreviations, standard - see Standard Plan No. 002	
Abbreviations, standard symbols - see Standard Plan No. 003	
Acceptance - see "Completion dates" and "Final inspection"	
Access to private property during construction .....	1-07.24
Access to work (inspection) .....	1-05.6
Addenda .....	1-02.6
Adjusting utility and similar structures to grade .....	7-20
Admixtures for concrete - see "Concrete structures"	
Aggregates .....	9-03
asphalt concrete pavement .....	5-04.3(7), 9-03.8
concrete structures .....	6-02.3(2)
cushion for permanent erosion control geotextile .....	9-05.22(3)
mineral aggregate chart .....	9-03.16
test methods for .....	9-03.15
Air entrainment	
admixture .....	9-23.6
concrete pavement .....	5-05.3(1)
concrete structures .....	6-02.3(3)A
Air release/ air vacuum valves, water .....	9-30.3(7)
Air relief valve, irrigation .....	9-15.7(9)
Alignment and camber	
concrete girder deflection .....	6-02.3(25)L
railings, metal .....	6-06.3(2)
steel structures .....	6-03.3(31)
Alley, blocking of – construction notification requirement .....	1-07.28
Alley return – see "Concrete driveway"	
Aluminum pipe in contact with portland cement, treatment for .....	7-02.3(1)C3b
Aluminum steps, manhole .....	9-12.2(2)
Amendments, landscaping .....	9-14.4
American-made material requirements - see section 1-06.5 of the project manual	
Anchor bolts	
grout for .....	6-02.3(20), 9-04.3(2)B
placed in concrete structure .....	6-02.3(18)
placed in steel structure .....	6-03.3(35)
poles and pedestals, lighting and signal .....	9-33.1(2)
structural steel .....	9-06.5(4)
Anti-stripping additive .....	9-02.4
Appeals (protest of an intended award of contract) .....	1-03.7
Approval of	
materials .....	1-05.6, 1-06.2
shop drawings .....	1-05.3
source of materials .....	1-06.1
"Approved equal, or" .....	1-06.1
Arch pipe, structural plate .....	7-03
As-built records .....	1-05.3(4)
Asphalt	
bituminous materials .....	9-02
bituminous surface treatment .....	5-02
construction requirements for pavement, driveway .....	5-04.3
pavement reclamation .....	4-07
pavement recycling .....	4-05
waterproofing .....	6-08.3(3), 9-11.1
Asphalt concrete - see "Pavement, asphalt concrete"	
Asphalt treated base (ATB) .....	4-06
Assignment .....	1-08.2
Assistant	
authority .....	1-05.2
defined term .....	1-01.3
Associations and miscellaneous .....	1-01.2(1)
ATB (asphalt treated base) .....	4-06
Audits of contractor records .....	1-09.12
Authority of contractor's superintendent or project manager .....	1-05.13
Authority of assistants .....	1-05.2
Authority of engineer .....	1-05.1
Award and execution of contract .....	1-03

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

## B

Backfill	
CDF, pipe bedding & trench backfill .....	9-01.5
mineral aggregates .....	9-03
selected material .....	2-03.3(10)
Backfilling	
embankment construction .....	2-03.3(14)
flow control system .....	7-16.3(1)
irrigation system .....	8-03.3(11)
sewer and drainage structures .....	7-05.3(1)O
structure excavation .....	2-09.3(1)E
structural plate pipe, arch, and underpass .....	7-03.3(3)
trench, culvert .....	7-02.3(3)
trench, miscellaneous pipe connection .....	7-08.3(1)
trench, sewer .....	7-17.3(3)
trench, side sewer .....	7-18.3(2)
trench, water main .....	7-10.3(10)
Backflow prevention devices, water .....	9-30.16
Backflow prevention devices, irrigation .....	9-15.9
Backflow prevention requirement .....	7-11.3(12)G
Back guy assembly .....	8-32.3(3), 9-33.8
Ballast for riprap .....	8-15.2
Ballasting and crushed surfacing .....	4-04
Ballasts, electrical	
overhead interior illuminated signs .....	9-32.7
luminaires .....	9-31.1
Bark mulch .....	9-14.4(3)
Barricades	
construction under traffic .....	1-07.23(1)
pedestrian control and protection .....	1-07.23(2)
traffic control plans .....	1-10.2(5)
Barrier, concrete .....	6-10
Base	
asphalt treated .....	4-06
ballasting and crushed surfacing .....	4-04
manholes .....	7-05.3(1)E
Beam guardrail	
construction .....	8-11
non-weathering steel .....	9-16.3
weathering steel .....	9-16.8
Bearing pad, elastomeric .....	9-35
Bearing test, 3 edge - for concrete pipe .....	9-05.3(2)C
Bearing value	
falsework piling .....	6-02.3(17)E
piles, determination of .....	6-05.3(12)
Bearings, bridge .....	6-02.3(19)
Bedding for pipe	
sewer and drainage .....	7-17.3(1)B
water main .....	7-10.3(6)
Beginning work (notice to proceed) .....	1-08.4
Benches .....	8-02.3(20), 9-14.13
Bending reinforcing steel .....	6-02.3(24)B, 9-07.1(2)
Bid(s)	
appeals .....	1-03.7
defined term .....	1-01.3
documents, where to obtain .....	1-02.2
consideration of .....	1-03.1
form (defined term) .....	1-01.3
form and style of .....	1-02.5
guaranty .....	1-02.7
guaranty (defined term) .....	1-01.3
irregular .....	1-02.13
modification or withdrawal .....	1-02.10
public opening .....	1-02.12
procedures and conditions .....	1-02
return of guaranty .....	1-03.6
submittal .....	1-02.9
tabulation .....	1-03.1(2)
withdrawal or modification .....	1-02.10
Bidder	
defined term .....	1-01.3
disqualifications .....	1-02.14
qualifications .....	1-02.1
Bituminous materials .....	9-02
Bituminous surface treatment .....	5-02
Block traffic curb .....	8-07, 9-18.3

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Blocking alley, street, sidewalk – construction notification requirement .....	1-07.28
Blowoff assembly (water main) .....	7-11.3(14), 9-30.2(10)
Bollards .....	8-02.3(19), 9-14.12
Bolt holes -see "Holes"	
Bolted connections	
falsework & formwork, timber .....	6-02.3(17)J
preparation for steel structures .....	6-03.3(27)G
steel structures .....	6-03.3(33)
Bond	
bid guaranty .....	1-02.7
bid guaranty, defined term .....	1-01.3
contract bond .....	1-03.4
contract bond, defined term .....	1-01.3
Bonding and grounding	
illumination & electrical .....	8-30.3(7)
traffic signal system .....	8-31.3(10)
Borrow	
classification .....	2-03.3(13)
gravel .....	9-03.14
sites, disposal and .....	2-01.2
Bracket arm .....	8-32.3(5), 9-33.2(9)
Bridge approach slab, reinforced concrete .....	5-05.3(19)
Bridge drains .....	6-02.3(36)
Bridge drains, maintenance during construction .....	6-01.16
Bridge drawings, normal temperature .....	6-01.5
Bridge railings .....	6-06
Bridge under construction, load restrictions .....	6-01.6
Bus shelter footing .....	8-14.3(9)
Bus zone signs .....	8-21.3(1)B
Buttons, traffic .....	8-08, 9-21
"Buy American" requirements - see section 1-06.5 of the project manual	

## C

Cable outlets on poles .....	9-33.2(5)
Calcium chloride in concrete admixtures .....	9-23.6
Calcium chloride in non-shrink cement sand grout .....	9-04.3(2)C
Calcium chloride in concrete pavement .....	5-05.2
Castings	
adjustment in pavement .....	7-20
sewer and drainage .....	7-05.3(1)R, 9-05, 9-12
survey monuments .....	9-22
water main .....	9-30.3(12)H
Catch basins .....	7-05.3(2), 9-12
CDF – see "Controlled density fill"	
Cement	
admixtures .....	9-23
CDF – see "Controlled density fill"	
classification of concrete for pavements .....	5-05.3(1)
classification of concrete for structures .....	6-02.3(2)A
portland cement .....	9-01
slurry, abandon and fill pipe .....	2-02.3(5)A, 9-05.23
slurry, annular space between pipes .....	7-17.3(2)J, 9-05.23
Cement concrete approaches .....	5-05.3(18)
Cement concrete in contact with aluminum pipe, treatment of .....	7-02.3(1)C3b
Cement concrete pavement - see "Pavement, cement concrete"	
Cement concrete structural – see "Concrete structures"	
Cement concrete sidewalks .....	8-14
Cement slurry for abandoning pipe and filling annular space between pipes – see "Cement"	
Chain link fence and wire fence .....	8-12
Changed conditions – see "Differing site conditions"	
Changes, equitable adjustment for .....	1-09.4
Changes in contract .....	1-04.4
Channel excavation .....	2-10
Chemical spill	
notification requirement .....	1-07.28
water quality .....	1-07.5(2)
Chloride	
in concrete admixtures .....	9-23.6
in prestressed concrete .....	9-19.1
in structural concrete .....	6-02.3(2)A
in structural concrete placed underwater .....	6-02.3(3)B
in structural grout .....	6-02.3(26)G
in water for concrete .....	9-25.1
ion content in precast prestressed concrete .....	9-23.7
Claims and dispute resolution process .....	1-04.5(2)
Class concrete – see "Cement"	

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Cleanup	
final and roadside .....	1-04.11
quarry and pit sites .....	3-01.2(1)E
Cleaning existing drainage structures .....	7-07
Clear plastic covering, erosion control .....	8-01.3(8), 9-14.5(3)
Clearances with utilities .....	1-07.17(2)
Clearing, grubbing, and roadside cleanup .....	2-01
Clearing, site for structures .....	6-01.3
Coal tar pitch emulsion .....	9-02.1(9)
Cofferdams .....	2-09.3(3)
Cold weather work/unfavorable weather - see "Weather limitations"	
Collusion .....	1-02.8
Coloring agent for concrete sidewalk .....	8-14.2, 9-23.10
Combined sewers	
connections with culverts .....	7-02.3(2)
pipes and connections .....	7-18.3(7)A
Compacting	
asphalt concrete .....	5-04.3(10)
asphalt treated base .....	4-06.3(9)
ballasting and surfacing .....	4-04.3(5)
backfill, culvert .....	7-02.3(3)
backfill, sewer & drainage structures .....	7-05.3(1)O
backfill, electrical conduit .....	8-33.3(1)
backfill, flow control structure .....	7-16.3(1)
backfill, sewer and drainage .....	7-17.3(3)
backfill, water main .....	7-10.3(11)
concrete for pavement .....	5-05.3(7)
earth embankments .....	2-03.3(14)D
erosion control .....	8-01.3(1)B
full depth asphalt pavement recycling .....	4-05.3(2)C
full depth pavement reclamation .....	4-07.3(2)D
lawn installation .....	8-02.3(14)A
planting area preparation .....	8-02.3(4)
rock embankments .....	2-03.3(14)B
structure excavations .....	2-09.3(1)E
subgrade .....	2-06
Compaction control tests .....	2-03.3(14)E
Completion, contract .....	1-05.12
Completion date - defined terms	
completion .....	1-01.3
contract completion .....	1-01.3
physical completion .....	1-01.3
substantial completion .....	1-01.3
Completion, time for .....	1-08.5
also see agreement form in the project manual	
Concrete - see "Concrete structures" or "Pavement, cement concrete"	
Concrete barrier .....	6-10
Concrete brick	
sewer & drainage structures .....	9-12.6
valve chambers .....	9-30.3(12)C
Concrete, cement - see "Cement"	
Concrete curing materials and admixtures .....	9-23
Concrete driveway .....	8-19
Concrete in contact with aluminum pipe, treatment .....	7-02.3(1)C3b
Concrete pipe	
permeability test .....	9-05.7(1)A
three edge bearing test .....	9-05.3(2)C
Concrete slope protection .....	8-16
Concrete structures	
admixtures .....	6-02.3(3), 9-23
air entrained concrete .....	6-02.3(3)A
bonding new concrete to existing .....	6-02.3(34)A2
class concrete .....	6-02.3(1)
compression seal .....	6-02.3(13)
concrete mixes .....	6-02.3(2)A
concrete mixing requirements .....	6-02.3(4)
concrete placing requirements .....	6-02.3(6)
construction joint .....	6-02.3(12)
crack, epoxy injection of .....	6-02.3(33)
curing .....	6-02.3 (11)
curing materials .....	9-23
drilling holes in .....	6-02.3(30)
expansion joint .....	6-02.3(13)
exposed to alkaline soils or water .....	6-02.3(8)
exposed to seawater .....	6-02.3(7)
finishing surfaces (Class finish) .....	6-02.3(14)
fly ash .....	9-23.9

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

formwork and falsework .....	6-02.3(17)
formwork and falsework removal .....	6-02.3(17)O
precast panels .....	6-02.3(28)
prestressed girders .....	6-02.3(25), 9-19
rate of placing, concrete pressure .....	6-02.3(17)K
repair of spalled and delaminated.....	6-02.3(32)
retempering .....	6-02.3(4)D
roadway slabs .....	6-02.3(10)
slump (consistency) .....	6-02.3(4)E
vibration .....	6-02.3(9)
weather and temperature limits to protect .....	6-02.3(6)B
Conduit and trenching, electrical .....	8-33
risers .....	8-33.3(3)
jacking or boring .....	8-33.3(5)
rigid steel .....	9-34.2
PVC .....	9-34.3
Conformity with and deviations from drawings and stakes .....	1-05.4
Connection, catch basin, inlet and drop .....	7-08
Construction joint, concrete structures .....	6-02.3(12)
Construction near Seattle Monorail – notification requirement .....	1-07.28
Construction notification requirements .....	1-07.28
Construction stakes .....	1-05.5
Contaminant spill – notification requirement .....	1-07.28
Contract	
assignment .....	1-08.2
award of .....	1-03.2
bond .....	1-03.4
bond (defined term) .....	1-01.3
change in .....	1-04.4
completion .....	1-05.12
completion date (defined term) .....	1-01.3
coordination of documents .....	1-04.2
defined term .....	1-01.3
execution of .....	1-03.3
extension of time and delays .....	1-08.8
failure to execute .....	1-03.5
final inspection .....	1-05.11(2)
intent of .....	1-04.1
liquidated damages, overrun of contract time .....	1-08.9
physical completion .....	1-05.11(2)
physical completion date (defined term) .....	1-01.3
subcontracting .....	1-08.1(3)
substantial completion .....	1-05.11(1)
substantial completion date (defined term) .....	1-01.3
termination .....	1-08.10
time (defined term) .....	1-01.3
working days, time for completion .....	1-08.5
Contract bond .....	1-03.4
Contract bond, defined term .....	1-01.3
Contract price	
awarded (defined term) .....	1-01.3
final (defined term) .....	1-01.3
revised (defined term) .....	1-01.3
Contraction joints	
concrete driveway .....	8-19.3(3)
concrete pavement .....	5-05.3(8)B
concrete sidewalk .....	8-14.3(6)
joint sealants for sawed .....	9-04.2(1)
Contractor	
compliance with law .....	1-07
construction activities, notification requirements .....	1-07.28
cooperation with other contractors .....	1-05.14
defective and unauthorized work .....	1-05.7
defined term .....	1-01.3
examination of bid documents and project site .....	1-02.4
patented devices, materials, and processes .....	1-07.20
load limits .....	1-07.7
prevailing wages .....	1-07.9
responsibility for work and damages .....	1-07.13
submittals .....	1-08.3
unauthorized work .....	1-05.7
Contractor performance evaluation program .....	1-05.13(2)
Controlled blasting (see special provisions in the project manual)	
Controlled density fill (CDF)	
CDF pipe bedding .....	9-01.5
CDF structural bedding .....	2-09.3(1)E
CDF trench backfill .....	9-01.5

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

see "Cement, slurry" for filling abandoned pipe and for filling annular space between 2 pipes	
Control of materials .....	1-06
Control of work .....	1-05
Controller	
irrigation, automatic .....	9-15.4
irrigation, installation .....	8-03.3(7)
irrigation, electrical wire .....	9-15.6
irrigation, flushing & testing .....	8-03.3(9)
traffic signal, assembly .....	8-31.3(2)
traffic signal, assembly replacement .....	8-31.3(1)C
traffic signal, assembly testing .....	8-31.1(5)
traffic signal, check-out & turn-on procedures .....	8-31.3(1)
traffic signal, check-out procedure .....	8-31.3(15)
traffic signal, detector loops to .....	9-32.6
traffic signal, final inspection & as-built drawings .....	8-31.3(17)
traffic signal, foundations .....	8-32.3(2)B
traffic signal, turn-on / cut-over procedure .....	8-31.3(16)
Coordination of contract components .....	1-04.2
Copper seals .....	9-06.13
Corrosion protection, water main	
coating for bolts and shackle rods .....	9-30.15
couplings .....	9-30.2(7)
electrolysis test station .....	9-30.12
pipe coatings .....	9-30.1(6)
Corrosion resistant material	
aluminum poles .....	9-33.3
ground rods, clamps, and hardware, electrical .....	9-31.7
pedestrian signal heads, case .....	9-32.4(3)
water main fittings, bolts and nuts .....	9-30.2(7)
Corrugated	
drain installation .....	7-01.3
flow control systems, limitations .....	7-16.2
manholes .....	7-05.3(1)L, 9-12.10
sewer and drainage piping .....	9-05
cut-in tee to pipe connection .....	7-17.3(2)C3
Counter, batch, concrete .....	5-05.3(3), 6-02.3(4)C
Cover, depth of	
electrical & signal conduit .....	8-33.3(1)
watermain, distribution .....	7-10.3(5)C
Crack repair, concrete structure .....	6-02.3(33)
Crack sealing, asphalt .....	5-04.3(5)D
Cribbing, gabion .....	6-09, 9-27
Critical path schedule .....	1-08.3(1)
Crushed surfacing .....	4-04, 9-03.9
Cultivation	
erosion control .....	8-01.3(1)A
landscaping .....	8-02.3
Culverts .....	7-02
Curb	
and gutter, type 410 B .....	8-04.3(4)
blockouts at curb ramps .....	8-04.3(2)
cement concrete .....	8-04
doweled, type 410C .....	8-04.3(5)
extruded, asphalt & cement concrete .....	8-06
mountable, for traffic circles .....	8-04.3(6)
placed with concrete sidewalk .....	8-14
precast, traffic & block .....	8-07
ramps, types 1 and 2 .....	8.14.3 (7) and (8)
Curb wall .....	5-05.3(23)D
Curing	
concrete curb .....	8-04.3(1)E
concrete driveway .....	8-19.3(4)
concrete extruded curb .....	8-06.3(6)
concrete manhole .....	7-05.3(1)D2
concrete pavement .....	5-05.3(13)
concrete piles .....	6-05.3(3)D
concrete precast panels .....	6-02.3(28)D
concrete prestressed girders .....	6-02.3(25)E
concrete sidewalks .....	8-14.3(5)
concrete slope protection .....	8-16.3(3) and (4)
concrete stairways, landing, and steps .....	8-18.3(5)
concrete structures .....	6-02.3(11)
concrete structures, removal of falsework and forms .....	6-02.3(17)O
curing materials .....	9-23
full depth pavement reclamation .....	4-07.392)D
traffic curb, precast & block .....	9-18.1(6)

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

## D

Damage, contractor responsible for work and .....	1-07.13
Damages, liquidated .....	1-08.9
Damages, liquidated (defined term) .....	1-01.3
Date numerals, for concrete structures .....	6-02.3(15)
Dates	
application of seed, fertilizer, mulch – erosion control .....	8-01.3(7)
landscape planting .....	8-02.3(6)A
contract, various, defined terms .....	1-01.3
Day - defined terms – business, calendar, non-working, working, unworkable .....	1-01.3
Debris, clearing and grubbing, disposal of .....	2-01.2
Decomposed organic mulch amendment .....	9-14.4(5)
Defective and unauthorized work .....	1-05.7
Defined terms, contract .....	1-01.3
Definitions, electrical and electronic words and phrases .....	1-01.3
Definitions and tests, materials .....	9-00
Delaminated and spalled structural concrete, repair .....	6-02.3(32)
Delays, contract time .....	1-08.8
Deleted or terminated work .....	1-09.5
Delineator posts, flexible .....	8-10
Density,	
ATB .....	4-06.3(7)
asphalt concrete .....	5-04.3(10)B
compaction control tests, soils .....	2-03.3(14)E
full depth asphalt pavement recycling .....	4-05.3(2)C
full depth pavement reclamation .....	4-07.3(2)D
trench backfill, sewer / drainage & related structure excavation .....	7-17.3(3)B
trench backfill, water main & related structure excavation .....	7-10.3(10)
Detectable marking tape, irrigation system .....	9-15.11
Detector loops .....	8-31.3(5), 9-32.6
Detention pipe .....	7-16.3(3)
Detention systems in environmentally critical areas .....	7-16.2
Detention storage – see "Flow control structures"	
Dewatering	
casing for cast-in-place concrete piles .....	6-05.3(15)B
concrete seals & foundations .....	6-02.3(6)D
sewer & drainage pipe excavation .....	7-17.3(1)A3
sewer & drainage structure excavation .....	7-05.3(1)A1
structure excavation .....	2-09.3(3)F
water main excavation .....	7-10.3(7)C
water main excavation, during water main pipe installation .....	7-11.3(1)
Differing site conditions .....	1-04.7
Disputes and Claims Resolution Process .....	1-04.5
Disposal of	
borrow and disposal sites .....	2-01.2
structure excavation .....	2-09.3(1)D
surplus materials .....	2-03.3(7)
Disqualification of bidders .....	1-02.14
Ditch and Channel Excavation .....	2-10
Ditches, roadway .....	2-03.3(9)
Dowel bars	
concrete pavement .....	5-05.3(10), 9-07.5
curb construction .....	8-04.3(1)C
timber structures .....	6-04.3(5)
Downspouts	
concrete structures .....	6-02.3(29)
side sewer testing .....	7-18.3(6)B
Drainage	
of box girder cells .....	6-02.3(21)
of substructure .....	6-02.3(22)
underground, geotextile .....	2-12.3(2)
Drainage structures	
cleaning existing .....	7-07
removal of .....	2-02.3(2)
salvage of .....	2-02.3(7)F
Drains	
bridge, construction of .....	6-02.3(36)
bridge, maintenance of .....	6-01.16
storm - see "Storm drain and sanitary sewer"	
subsurface .....	7-01
Drawings	
as-built .....	1-05.3(4)
contract, contractor responsibility .....	1-05.3
defined term .....	1-01.3
also see "Shop drawings"	
Driveway	

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

asphalt concrete .....	5-04.3(15)
cement concrete .....	8-19
Drop connections .....	7-08.3(6)
Ductile iron castings .....	9-06.14
Dust ratio	
definition .....	9-00.5
mineral aggregate type requirements .....	9-03

## E

Earth embankments .....	2-03.3(14)
Ecology block, concrete .....	Standard Plan no. 460
Edging	
cedar, landscape construction .....	8-02.3(18)
cedar material .....	9-14.11
paver restraint block construction .....	8-02.3(18)B
paver restraint block material .....	9-14.9(14)
Elastomeric bearing pads .....	6-02.3(19)A, 9-35
Elastomeric expansion joint seal, concrete pavement .....	9-04.1(4)
Elastomeric flexible seals for PVC pipe .....	9-04.8
Electrical, applicable codes .....	8-30.1(2)
Electrical and electronic words and phrases .....	1-01.3
Electrical safety observer	
authority of .....	1-05.2(2)
defined term .....	1-01.3
construction notification requirement .....	1-07.28
Electrical wire, irrigation system .....	9-15.6
Electrical wire and controller installation, irrigation system .....	8-03.3(7)
Electrical vaults – construction notification requirement .....	1-07.28
Embankments	
bridge approach (defined term) .....	1-01.3
construction of .....	2-03.3(14)C
stepped slope construction .....	2-03.3(18)
Emulsified asphalt, cationic	
application, bituminous surface treatment .....	5-02.3(3)
material specification .....	9-02.1(6)
Engineer	
authority of .....	1-05.1
defined term .....	1-01.3
Entry onto private property – see "Private property"	
Epoxy Resins .....	9-26
anchoring bars and rods to concrete .....	6-02.3(31)
material properties .....	9-26
patching, coated rebar for structural concrete .....	6-02.3(24)I
structural concrete crack repair .....	6-02.3(33)
Equal Employment Opportunity and non-discrimination requirements .....	1-07.11
Equipment	
asphalt hauling .....	5-04.3(2)
asphalt pavement construction .....	5-04.3(4)
ballasting and crushed surfacing .....	4-04.3(1)
bituminous surface treatment .....	5-02.3(1)
contractor's machinery and .....	1-05.9
concrete pavement construction .....	5-05.3(3)
contractor's, defined term .....	1-01.3
extruded curb construction .....	8-06.3(3)
full depth asphalt pavement recycling .....	4-05.3(1)
full depth pavement reclamation .....	4-07.3(1)
pile driving .....	6-05.3(9)
subsealing .....	5-01.3(2)
superintendent, labor, and .....	1-05.13
weighing .....	1-09.2
Erosion Control and Roadside Planting (materials) .....	9-14
Erosion Control .....	8-01
Erosion and water pollution control, temporary .....	1-07.15
Error, claim of, bid .....	1-03.1(3)
Estimates	
progress payment .....	1-09.9(1)
material on hand, progress payment for .....	1-09.8
Ethafoam (plastic foam) .....	9-05.14
Examination of bid documents and project site .....	1-02.4
Excavation	
classification – common, unsuitable foundation, solid rock .....	2-03.1(2)
ditch and channel .....	2-10
roadway .....	2-03
safety systems, trench .....	7-17.3(1)A7a
stripping pits and quarries .....	3-01
structure .....	2-09

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

trench, sewer and drainage .....	7-17.3(1)A
trench, water main .....	7-10.3(7)
Execution of contract .....	1-03.3
Existing drainage structures, cleaning .....	7-07
Expansion joint filler and sealer .....	9-04.1 and 2
concrete bridge roadway slabs .....	6-02.3(13)
concrete pavement .....	5-05.3(8)C1
material, concrete pavement .....	9-04.1(2)
material, structural concrete .....	6-01.14
Expansion bearings .....	6-02.3(19)B
concrete structures .....	6-03.3(37)
Explosives, use of .....	1-07.22
Extension of contract time .....	1-08.8
Execution of contract .....	1-03.3
Execution of contract, failure to .....	1-03.5
Eyebars, steel .....	6-03.3(22)

## F

Fabric, waterproofing .....	6-08
Falsework and formwork .....	
concrete structure construction .....	6-02.3(17)
concrete structure shop drawing requirements .....	6-02.3(16)
concrete structure, removal of .....	6.02.3(17)O
steel structure construction .....	6-03.3(12)
Fence .....	
chain link and wire, construction .....	8-12
materials .....	9-16
Fertile mulch amendment .....	9-14.4(4)
Fertilizer .....	
application, erosion control .....	8-01.3(4)B
application, landscaping .....	8-02.3(8)B
material specifications .....	9-14.3(1)
Festoon outlet .....	9-33.2(5)
Field office for engineer's staff - see Section 1-07.29 of the project manual .....	
Field tests .....	
backfill compaction control .....	2-03.3(14)E
bolted connections, steel structures .....	6-03.3(33)
concrete pavement smoothness .....	5-05.3(12)
flow control systems .....	7-16.3(5)
gabion unit weight .....	6-09.3(6)F
illumination and electrical .....	8-30.3(9)
irrigation system .....	8-03.3(9)
piles .....	6-05.3(10)
sewer and storm drain .....	7-17.3(4)
traffic signal system .....	8-31.3(15)
water main, final flush and .....	7-11.3(12)L
water main, hydrostatic pressure .....	7-11.3(11)
water main, taste and odor .....	7-11.2(2), 7-11.2(3)
welding rebar .....	6-02.3(24)F
welds, structural steel .....	6-03.3(25)B
Filter blanket for riprap .....	8-15.3(7)
Filter fabric – see "Geotextile" .....	
Filter material behind rock facing .....	8-08.3(1)E
Final cleanup .....	
roadside and .....	1-04.11
quarry and pit site reclamation .....	3-01.3(1)E
structures .....	6-01.12
Final inspection .....	1-05.11
Final payment for contract .....	1-09.9(4)
Finishes, concrete structure surfaces, classes 1, 2, and 3 .....	6-02.3(14)
Finishing .....	
asphalt concrete pavement .....	5-04.3(9)
asphalt treated base (ATB) .....	4-06.3(6)
bridge roadway slabs .....	6-02.3(10)
cement concrete pavement .....	5-05.3(11)
concrete curb .....	8-04.3(1)D
concrete driveway .....	8-19.3(3)
concrete piles .....	6-05.3(3)C
concrete sidewalk .....	8-14.3(4)
concrete stairways, landings, and steps .....	8-18.3(5)
concrete traffic and pedestrian barrier .....	6-02.3(11)B
monolithic curb and sidewalk .....	8-14.3(11)
prescast concrete panels .....	6-02.3(28)F
prestressed concrete girders .....	6-02.3(25)I
steel structural member edge finishing .....	6-03.3(14)

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

steel structural members .....	6-03.3(11)
Flexible guide posts .....	9-17
Flexible delineator posts .....	8-10
Floor, timber	
laminated .....	6-04.3(15)
single plank .....	6-04.3(14)
subfloor for concrete deck .....	6-04.3(16)
Flow control structure .....	9-05.19
Flow control systems .....	7-16
Flow control systems in environmentally critical areas .....	7-16.2
Flow control systems to be owned or maintained by the City .....	7-16.2
Follower, pile driving	
allowed uses .....	6-05.3(11)E
definition .....	6-05.3(1)
Force account .....	1-09.6
Force mains, sanitary sewer, hydrostatic test .....	7-17.3(4)F
Forgings, steel	
material .....	9-06.11
steel structures, used in .....	6-03.3(43)
Formwork	
concrete pavement, side forms .....	5-05.3(21)
shop drawings for concrete structures .....	6-02.3(16)
structural systems and falsework .....	6-02.3(17)
Formulas for	
carbon content, rebar suitable for welding .....	6-02.3(24)F
hankinson formula, bolted timber connections .....	6-02.3(17)J
leakage test, sanitary force main .....	7-17.3(4)F7
paints .....	9-08.2
pile driving, ultimate bearing .....	6-05.3(12)
pile driving vibrations, distance limitation .....	6-05.3(11)H
Foundations and preparation of	
cribbing, gabion .....	6-09.3(1)A
culvert .....	7-02.3(1)A
data for structures .....	6-01.2
sewer and drainage structures .....	7-05.3(1)B
flow control systems .....	7-16.3(1)
miscellaneous pipe connections .....	7-08.3(1)
pavement subgrade .....	2-06
pile driving, ultimate bearing .....	6-05.3(12)
pole, pedestal, pedestrian pushbutton post, & signal controller .....	8-32.3(2)
riprap .....	9-08.2
sewer & drainage pipe .....	7-17.3(1)
side sewer .....	7-18.3(2)
structural plate pipe, pipe arch, arch & underpass .....	7-03.3(1)
subsurface information .....	1-02.4(2)
water mains .....	7-10.3(7)
Fracture, aggregate (definition) .....	9-00.1
Frame and cover – see "Castings"	

## G

Gabion cribbing .....	6-09.3(6), 9-27.3
Gaskets, pipe joint material	
flexible plastic gaskets .....	9-04.5
rubber gaskets .....	9-04.4
Gates, chain link & wire fence .....	8-12, 9-16
Geotextile .....	2-12, 9-05.22
Girders	
prestressed concrete .....	6-02.3(25)
steel plate .....	6-03.3(21)
Glare screen .....	8-25, 9-16.6
Gradations, mineral aggregate types .....	9-03
Grade adjustment, castings	
adjust to finished grade .....	7-20
hydrants .....	7-14.1
new catch basin .....	7-05.3(2)C
new inlet .....	7-05.3(2)D
new manhole .....	7-05.3(1)P
new water main .....	7-12.3(3)
Grade requirements, timber and lumber .....	9-09.2
Grates – see "Castings"	
Gratuities .....	1-07.19
Gravel backfill .....	9-03
Gravel borrow .....	2-03.3(14)K, 9-03.14
Ground rods and clamps, electrical .....	9-31.7
Grounding and bonding, illumination and electrical .....	8-30.3(7)
Grounding and bonding, traffic signal .....	8-31.3(10)

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Grout – also see "Mortar" and "Epoxy resin"

Grout, non-shrink cement applications

cut-in tee on sewer pipe .....	7-17.3(2)C3
deck bulb tee girder, placing .....	6-02.3(25)P
electrical conduit – structure connection .....	8-33.3(2)A
flow control structures .....	7-16.3(2)
handrail mounting .....	8-18.3(4)
manhole steps .....	7-05.3(1)F
metal poles & pedestals, under base plate .....	8-32.3(1)B
mix designs .....	9-04.3(2)
parking meter post .....	8-21.3(2)B
pipe connection, catch basin and inlet .....	7-05.3(2)B, 9-12.4(3)
pipe connection, existing manhole .....	7-05.3(1)S, 9-12.4(3)
pipe connection, flow control structure .....	7-16.3(2), 9-12.4(3)
pipe connection, precast manhole .....	7-05.3(1)N, 9-12.4(3)
signals & lighting poles & pedestals .....	9-33.1(7)
surface preparation and application .....	6-02.3(3)D
<i>sewer and drainage structures</i> .....	9-12.4(3)

Grout, other than non-shrink cement applications

anchor bolts and bridge bearings .....	6-02.3(20)
anchor bolts, placing .....	6-02.3(18), 6-03.3(35)
anchor, bridge approach slab .....	5-05.3(19)
anchoring rebar and rod in concrete holes .....	6-02.3(30)
beam guardrail anchors .....	9-16.3(5)
cast-in-place prestressed concrete tendons .....	6-02.3(26)G
concrete pavement spall repair .....	5-05.3(22)
curb dowel, epoxy grout .....	8-04.2, 8-04.3(5)A
expansion joint, concrete structure .....	6-02.3(13)A
guy-wire anchor, wire fence .....	8-12.3(3)B
jet-set for direct burial parking meter posts .....	9-28.2(2)
patching concrete after concrete removal .....	6-02.3(34)A1
post, chain link fence .....	8-12.3(2)A
post, wire fence and gates .....	8-12.3(3)A
prestressed concrete girder, placing before erection .....	6-02.3(25)O
repair of spalled and delaminated concrete .....	6-02.3(32)
steel bearing plate, placing under .....	6-03.3(36)
wire mesh slope protection .....	9-16.4(6)
Grubbing .....	2-01.3(2)
Guarantees .....	1-05.10
Guaranty, bid .....	1-02.7
Guaranty, bid (defined term) .....	1-01.3
Guaranty, bid, return of .....	1-03.6
Guardrail	
construction .....	8-11
non-weathering steel .....	9-16.3
weathering steel .....	9-16.8
Guide Posts, flexible .....	9-17

## H

Hammer, pile driving .....	6-05.3(1), 6-05.3(9)
Hand holes in structural steel .....	6-03.3(19)
Handholds	
in precast concrete cones .....	7-05.3(1)6
steps, ladders and .....	7-05.3(1)Q, 9-12.2
Handholes	
electrical .....	8-33.3(4), 9-34.6
in pedestal .....	9-33.6
in pole, aluminum .....	9-33.3
in pole, steel .....	9-33.2(5)
Hankinson formula, reference for bolted timber connections .....	6-02.3(17)J
Haul .....	2-04
Headwalls .....	7-03.3(5)
Health and safety	
electrical .....	1-05.2(2)
hazardous waste sites – see Section 1-07.30 of the project manual	
in general .....	1-07
Helmet, pile driving .....	6-05.3(1)
High strength bolts	
holes in steel for .....	6-03.3(22)
material specifications .....	9-06.5(3)
Holes	
drilling in concrete .....	6-02.3(30)
drilling in steel eyebars for pins .....	6-03.3(20)
drilling in steel for high strength bolts .....	6-03.3(27)
drilling in steel pins and rollers .....	6-03.3(24)
epoxy bonding rebar & rod in concrete .....	6-02.3(31)

## 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

high strength bolts in structural steel .....	6-03.3(27)
pins and rollers, structural steel .....	6-03.3(24)
punched, reamed, sub-punched .....	6-03.3(27)
timber structures, bolts, dowels, rods, lag screws .....	6-04.3(5)
weep, for concrete slab riprap .....	8-15.3(5)
weep, drainage of substructure .....	6-02.3(22)
Holiday (defined term) .....	1-01.3
Holiday detection	
multi-layered polyethylene coating for water main .....	9-30.1(6)B
thermoplastic coating for water main .....	9-30.1(6)C5
Hydrant wall .....	7-14.3(9)
Hydrants .....	7-14, 9-30.5
Hydroseeding .....	8-01.3(4) and (5)
Hydrostatic test for sanitary force main .....	7-17.3(4)F

## I

Illuminated sign, overhead interior .....	8-31.3(6)
Illumination - see "Lighting / illumination"	
Incompetent workmen .....	1-05.13
Increased or decreased quantities .....	1-04.6
Indemnification - see "Insurance"	
Inlets	
adjustment to finished grade .....	7-20.3(2)
cast metal .....	9-12.8(3)
connections .....	7-08.3(5)
construction requirement .....	7-05.3(2)
drop inlet and grate inlet .....	9-12.13
Inspection	
final, of work .....	1-05.11
work and materials, of .....	1-05.6
Inspector - see "Assistant"	
Insurance .....	1-07.18
workers benefits .....	1-07.18(8)
indemnification .....	1-07.18(7)
Intent of contract .....	1-04.1
Interconnect cable .....	8-31.3(8), 9-32.9
Interior illuminated sign, overhead .....	8-31.3(6)
Interlocking concrete pavers .....	8-14.3(10), 9-14.9
Irrigation system 8-03, 9-15	
Items of work and units of measurement .....	1-01.2(2)

## J

Jet-set cement for direct burial parking meter post .....	9-28.2(2)
Job shack - see "Field office"	
Joints, concrete structure	
compression seals, and expansion joints .....	6-02.3(13)
construction .....	6-02.3(12)
Joints, irrigation system, pipe .....	8-03.3(5)
Joints, pavement, sidewalk, driveway, and related	
curb and gutter, concrete .....	8-04.3 (1) F
curb, extruded .....	8-06.3(5)
driveway, concrete .....	8-19.3(3)
pavement, asphalt .....	5-04.3(11)
pavement, concrete .....	5-05.3(8)
sidewalk, concrete .....	8-14.3(6)
Joints, sewer and drainage	
connections, at catch basin, inlet, manhole .....	7-08.3(3)
culvert pipe, concrete .....	7-02.3(1)B
drain pipe .....	7-01.3(2)
materials, various type pipe applications .....	9-05
miscellaneous pipe connections .....	7-08.3(3)
sewer and drainage, gasketed .....	7-17.3(2)E-F
sewer and drainage, hand mortared & on curves .....	7-17.3(2)B2
side sewer .....	7-18.3(3)D
structure, manhole .....	7-05.3(1)K
Joints, watermains	
bond cable .....	9-30.10
ductile iron .....	7-11.3(6)
electrolysis, joint bonding .....	7-11.3(15)
restrained .....	9-30.2(6)
Joint and crack sealing materials .....	9-04
Joint venture, business (defined term) .....	1-01.3
Junction box, drainage .....	7-02.3(2), 9-12.9
Junction and terminal boxes, electrical .....	9-32.11(5)

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

## K (none)

## L

Labor and Industries, State Department of	
flagging .....	1-10.1(3)A
safety rules and standards .....	1-07.1(2)
subcontracting .....	1-08.1(3)
wages .....	1-07.9
workers benefits .....	1-07.18(8)
Labor prevailing wage rates .....	1-07.9(1)
Laboratory (defined term) .....	1-01.3
Ladders, steps, and handholds for manholes .....	7-05.3(1)Q, 9-12.2
Laminated concrete repair .....	6-02.3(32)
Laminated floor, timber structures .....	6-04.3(15)
Landscaping - see "Roadside planting"	
Landslide prone areas, flow control structures .....	7-16.2
Lane markers and traffic buttons .....	8-08, 9-21
Laws, to be observed .....	1-07.1
Legal relations and responsibilities to the public .....	1-07
Licenses, permits and .....	1-07.6
Lighting / illumination .....	8-30, 9-31
Lime, agricultural .....	9-14.3(2)
Liquidated damages	
amount of – see agreement form in the project manual	
contract time overrun .....	1-08.9
defined term .....	1-01.3
Load limits .....	1-07.7
Locator, underground facility / construction notification requirement .....	1-07.17(1), 1-07.28
Log of test borings, subsurface information .....	1-02.4(2)
Logs of soil borings – see appendix of the project manual	
Loose riprap .....	8-15.3(2), 9-13.2
Lumber	
formwork and falsework for concrete structures .....	6-02.3(17)
material requirements .....	9-09
timber structures, construction requirements .....	6-04
Luminaire .....	8-30.3(2), 9-31.1
Luminaire arm - see "Bracket arm"	

## M

Machinery, contractor's equipment and .....	1-05.9
Maintenance, during suspension of work .....	1-08.7
Maintenance rock .....	9-03.9(4)
Manholes	
adjusting to finished grade .....	7-20
construction requirements .....	7-05.3(1)
material specifications .....	9-12
Manufacturers certificate of compliance .....	1-06.3
Marking on pavement	
asphalt pavement construction .....	5-04.3(17)
concrete pavement construction .....	5-05.3(17)
construction under traffic .....	1-07.23(1)
designations and construction requirements .....	8-22
removal .....	2-02.3(3)J
temporary traffic control .....	1-10.3(4)C
Materialman (defined term) .....	1-01.3
Materialmen, prompt payment to .....	1-09.14
Materials	
acceptance .....	1-06.2
American-made requirements - see Section 1-06.5 in the Project Manual	
found on project site, use of .....	1-04.10
inspection of work and .....	1-05.6
on hand, payment for .....	1-09.8
Matting	
material specifications .....	9-14.5
placing for erosion control .....	8-01.3(8)
Measurement and payment .....	1-09
Measurement of quantities .....	1-09.1
Mechanical splices, rebar .....	6-02.3(24)G
Mediation .....	1-04.5(4)
Mesh	
for wire fence .....	9-16.2(7)
wire, for concrete reinforcement .....	9-07.7
Mineral aggregates .....	9-03
Mobilization, payment for .....	1-09.7
Mobilization, payment for force account .....	1-09.6(6)

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Moisture cured urethane paint .....	6-07.3(7), 9-08.2 item 18.
Monorail, Seattle, notification when construction near .....	1-07.28
Monument cases (frame and cover) .....	8-13, 9-22
Mortar for	
edge support wall .....	9-04.3(1)
hand mortared concrete culvert pipe joint .....	9-04.3(1)
sewer and drainage structures .....	9-12.4
water valve chamber brick and block .....	9-30.3(12)E
water valve chamber plaster-coating .....	9-30.3(12)I
waterproofing cement concrete surfaces .....	6-08, 9-11.3
Mulches and mulch amendments .....	9-14.4

## N

Navigable streams affected by structures .....	6-01.7
Noise pollution .....	1-07.5(4)
Non-discrimination requirements, equal employment opportunity and .....	1-07.11
Noncollusion, bidder requirement .....	1-02.8
Normal temperature, bridge drawings dimensions .....	6-01.15
Notice – see "Written notice"	
Notice of award (defined term) .....	1-01.3
Notice to proceed (defined term) .....	1-01.3
Notice to proceed (NTP) and prosecution of the work .....	1-08.4
Notifications required by contractor's - construction / excavation / inspection	
backflow prevention device inspection .....	1-07.28, item 5
blocking arterial, street, sidewalk, alley .....	1-07.28, item 1
chemical, oil, or contaminant spill .....	1-07.28, item 8
construction near Seattle Monorail facilities .....	1-07.28, item 9
electrical safety observer .....	1-07.28, item 6
entry onto private property .....	1-07.28, item 13
loop detection systems near signalized intersections .....	1-07.28, item 15
METRO and waterfront trolley overhead wires, construction near .....	1-07.28, item 11
METRO transit service disruption .....	1-07.28, item 2
monorail, construction near .....	1-07.28, item 9
overhead utility lines and trees .....	1-07.28, item 10
overhead METRO and Waterfront street car wires .....	1-07.28, item 11
parking meters, covering .....	1-07.28, item 1
parking restrictions .....	1-07.28, item 1
pavement problems, emergency .....	1-07.28, item 4
property access restrictions .....	1-07.28, item 3
sanitary sewer spill .....	1-07.28, item 7
sidewalk problems, emergency .....	1-07.28, item 4
tree trimming or felling near overhead power lines .....	1-07.28, item 10
underground facility locate (one call) .....	1-07.28, item 12
underground electrical transmission system .....	1-07.28, item 6
U.S. Postal Service collection boxes and mail receptacles .....	1-07.28, item 14
water main, hydrant, water service shutdown and obstruction .....	1-07.28, item 5
water main clearances with other facilities .....	1-07.28, item 5
water service transfer .....	1-07.28, item 5

## O

Odor and taste testing for water mains .....	7-11.2(2) and (3)
"One call" underground facility locate service .....	1-07.17(1)
On-site lead, electrical	
defined term .....	1-01.3
responsibilities .....	1-05.2(2)
Opening	
bids, public contracts .....	1-02.12
bridge roadway slabs .....	6-02.3(23)
concrete pavement to traffic .....	5-05.3(17)
of sections to traffic .....	1-07.25
Operational testing, final inspection .....	1-05.11(3)
"Or equal" .....	1-06.1
Oral agreements .....	1-05.17
Ordering water service transfers .....	1-07.28, 7-15
Outlet traps .....	9-12.12
Overbreak .....	2-03.3(12)
Overhead interior illuminated sign .....	8-31.3(6), 9-32.7
Overhead METRO trolley lines, construction near, notification requirement .....	1-07.28
Overhead power lines & tree trimming - construction notification requirement .....	1-07.28
Overtime	
contractor employees .....	1-07.9(1)B
force account, labor .....	1-09.6(2)
owner employees, reimbursement for .....	1-08.1(5)
owner's right to withhold and disburse certain amounts .....	1-09.9(3)
Overweighing / underweighing and pay adjustment .....	1-09.2(5)

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Overweight loads, over bridges and culverts .....	1-07.7
Owner (defined term) .....	1-01.3
Owner, rights of the .....	1-03.1(5)
Owner's right to correct defective or unauthorized work .....	1-05.8
P	
Paint	
film thickness .....	6-07.3(5)
formulas .....	9-08.2
materials .....	9-08.1
moisture cured urethane paint (formula no. 18) .....	9-08.2
Painting .....	6-07
painting hydrants .....	7-14.3(11), 9-30.5(7)
shop painting steel members .....	6-03.3(30)
Parking meter post installation .....	8-21.3(2)B
Parking meter post, material specifications .....	9-28.2(2)
Parking restriction - construction notification requirement .....	1-07.28
Patented devices, materials and processes .....	1-07.20
Pavement, asphalt concrete .....	5-04
Pavement, cement concrete .....	5-05
Pavement removal .....	2-02.3(3)
Pavement marking .....	8-22, 9-29
Pavement marking removal .....	2-02.3(3)J
Pavement marking, temporary, new asphalt pavement .....	5-04.3(17)
Pavement marking, temporary, new concrete pavement .....	5-05.3(17)
Pavers, interlocking concrete .....	8-14.3(10), 9-14.9
Pay - see "Wages"	
Payment, measurement and .....	1-09
Payroll reports .....	1-07.9(1)D
Pedestal, signal .....	9-33.6
Pedestrian control and protection .....	1-07.23(2)
Pedestrian signal heads .....	8-31.3(3)C, 9-32.4
Perforated drain pipe .....	7-01, 9-05.2
Performance evaluation program, contractor .....	1-05.13(2)
Permeability test, concrete pipe .....	9-05.7(1)A
Permits and licenses .....	1-07.6
Personal liability of officers and employees of owner .....	1-07.26
Piles and piling .....	6-05, 9-10
Pins and rollers, structural steel .....	6-03.3(24)
Pin nuts, adjusting .....	6-03.3(34)
Pipe	
material - irrigation .....	9-15
material - sewer and drainage .....	9-05
material - structural plate, arch, and underpass .....	7-03
material - water main .....	9-30
pipe installation - miscellaneous pipe connections .....	7-08
pipe installation - culverts .....	7-02
pipe installation - drains .....	7-01
pipe installation - plate, arch, and underpass .....	7-03
pipe installation - sanitary sewer and storm drain .....	7-17
pipe installation - sewer cleanout .....	7-19
pipe installation - side sewer .....	7-18
pipe installation - water main .....	7-11
Pipe anchors .....	7-06
Pipe and fittings for water mains .....	7-09
Pipe bedding, controlled density fill (CDF) – see Controlled Density Fill	
Plan, contractor required submittal – also see "Shop drawings"	
falsework & formwork – temporary footing & mudsill bearing test .....	6-02.3(17)E
falsework & formwork support system – pile bearing test .....	6-02.3(17)E
interconnect cable, old to new .....	8-31.3(8)A
jacking irrigation piping .....	8-03.3(4)
prestress concrete girder erection .....	6-02.3(25)O
reclamation .....	3-03.3
reclamation, borrow and waste sites .....	2-01.2
removal of falsework and formwork .....	6-02.3(17)O
removal of structural concrete .....	6-02.3(34)A
repair, rejected pole .....	8-32.3(1)A
structural steel erection .....	6-03.3(7)B
structural steel marking .....	6-03.2
temporary traffic control .....	1-10.2(5)
temporary water pollution/erosion control .....	1-07.15
traffic signal controller modification .....	8-31.3(2)A
weed control, landscape establishment .....	8-02.3(12), item 8
Plans – see "Drawings"	
Plant materials .....	9-14.6
Planting, landscape – see "Roadside planting"	

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Plastic covering, clear	
construction requirement .....	8-01.3(8)
material specification .....	9-14.5(3)
Plastic foam (ethafoam) .....	9-05.14
Plastic lane markers and traffic buttons .....	8-08, 9-21
Plastic waterstop .....	9-24
Plate girders, steel .....	6-03.3(21)
Platform scales .....	1-09.2(3)
Playfield soil .....	8-01.3(2)D, 9-14.1(4)B
Plugging existing culvert .....	7-02.3(5)
Plugging existing pipe .....	2-02.3(5)B
Poles, signal and electric	
aluminum .....	9-33.3
and traffic signal system .....	8-31
back guy assemblies .....	9-33.8
construction requirements .....	8-32.3
foundations .....	8-32.3(2)
general pole requirements .....	9-33.1
pedestals, steel and aluminum .....	9-33.6
shop drawing submittal requirement .....	8-32.1(3)
steel .....	9-33.2
traffic sign installation on .....	8-21.3(1)
wood .....	9-33.4
Pollution, prevention of environmental & preservation of public natural resources .....	1-07.5
Polyethylene encasement (film wrap) for water main .....	7-11.3(6)B, 9-30.1(6)B
Polyethylene multi-layer coating for water main .....	7-11.3(6)C, 9-30.1(6)D
Portland cement .....	9-01
Posts	
beam guardrail, weathering and non-weathering .....	8-11.3(1), 9-16.3(2)
blockout in new concrete sidewalk for .....	8-14.3(3)
chain link fence and gate .....	8-12.3(2), 9-16.1(2)
flexible delineator .....	8-10
flexible guide .....	9-17
glare screen .....	8-25.3(3), 9-16.6(3)
handrail in concrete stairway .....	8-18.3(4)
metal bridge railing .....	9-06.18
parking meter .....	8-31.3(2), 9-28.2(2)
pedestrian pushbutton .....	9-33.7
project identification sign .....	8-27.2(5)
roadside sign structure .....	9-06.16
sign, wood .....	8-21.3(2), 9-28.2
silt fence .....	2-12.3(6)B
street name sign .....	9-28.2(4)
wire fence and gate .....	8-12.3(3), 9-16.2(2)-(3)
wood post lumber specifications .....	9-09
Pre-award information .....	1-03.1(4)
Precast concrete piles .....	6-05.3(3) and (7)B
Precast traffic curb and block traffic curb .....	8-07, 9-18
Precedence, order of contract components .....	1-04.2
Preconstruction conference .....	1-08.1(2)
Preliminary critical path schedule .....	1-08.3(1)
Premolded joint filler	
for concrete pavement joints .....	5-05.3(8), 9-04.1
for concrete structure joints .....	6-01.14
Preservation of public natural resources .....	1-07.5
Preservative treatments for timber .....	9-09.3
Prestressed concrete girders .....	6-02.3(25), 9-19
Prestressing reinforcement .....	9-07.10
Prevailing wage rates .....	1-07.9(1)
Prevention of environmental pollution .....	1-07.5
Private property	
notification requirement, construction access limitations and entry onto .....	1-07.28
real property rights .....	1-07.24
Production from quarry and pit sites .....	3-01
Professional engineer, submittal prepared by .....	1-05.3(2)F
Progress estimates and payment .....	1-04.8, 1-09.9
Progress schedule to be furnished by contractor - see "Critical path schedule"	
Project manual (defined term) .....	1-01.3
Project site (defined term) .....	1-01.3
Prompt payment to subcontractors and materialmen .....	1-09.14
Property, protection and restoration of .....	1-07.16
Proposal – see "Bid"	
Prosecution and progress .....	1-08
Process, dispute resolution .....	1-04.5
Protection and restoration of property .....	1-07.16
Protection of utilities – see "Utilities and similar facilities"	
Pruning and staking of plant material .....	8-02.3(7)

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Public convenience and safety .....	1-07.23
Public officers and employees of owner, no personal liability of .....	1-07.26
Public opening of bids .....	1-02.12

## Q

Qualifications of bidders .....	1-02.1
Quarry and pit sites .....	3-01
Quantities	
increased or decreased .....	1-04.6
measurement of .....	1-09.1
Quick coupling valves, irrigation .....	9-15.7(3)

## R

Railings, bridge and pedestrian .....	6-06
Railings for concrete stairways and landings – also see "Handrails" .....	8-18.2, 8-18.3(4)
Railroads, relations with the – see section 1-07.31 of the project manual	
Real property .....	1-07.24
Rebuild existing catch basin .....	7-05.3(2)F
Rebuild existing manhole .....	7-05.3(1)U
Reinforcing steel (also called "rebar") .....	9-07
Rejection of bids .....	1-02.13, 1-02.14
Rejuvenating (recycling) agents, asphalt .....	9-02.1(5)
Relief of responsibility for completed work .....	1-07.13(2)
Relief of responsibility for damage by public traffic .....	1-07.13(3)
Removal of	
defective and unauthorized work .....	1-05.7
falsework and forms, structural concrete .....	6-02.3(17)O
structural concrete, bonding new concrete to existing concrete .....	6-02.3(34)
unacceptable paint .....	6-07.3(1)E
Remove, abandon, or relocate structures and obstructions .....	2-02
Rented equipment, payment for force account work .....	1-09.6
Repainting existing steel structure .....	6-07.3(2)
Responsibility for work and damage, contractor's .....	1-07.13
Retainage .....	1-09.9(2)
Retaining walls – also see "Rock facing"	
Retaining walls for hydrants .....	7-14.3(9)
Right-of-way (defined term) .....	1-01.3
Rights of the owner .....	1-03.1(5)
Riprap .....	8-15
Roadbed (defined term) .....	1-01.3
Roadside cleanup .....	2-01, 1-04.11
Roadside planting .....	8-02, 9-14
amendments, mulches and .....	8-02.3(9), 9-14.4
benches .....	8-02.3(20), 9-14.13
bollards .....	8-02.3(19), 9-14.12
cedar edging .....	9-14.11
chemical pesticides .....	8-02.3(3)
cultivation and cleanup .....	8-02.3(11)
edging .....	8-02.3(18)
fertilizer .....	8-02.3(8), 9-14.3(1)
grid blocks .....	8-02.3(17)
landscape establishment .....	8-02.3(12)
lawn establishment .....	8-02.3(15)
lawn installation .....	8-02.3(14)
layout of planting .....	8-02.3(5)
matting .....	9-14.5
mulch amendment .....	8-02.3(9), 9-14.4
paver blocks and interlocking pavers .....	8-02.3(16), 9-14.9
plant materials .....	9-14.6
planting .....	8-02.3(6)
planting area preparation .....	8-01.3(4)
planting soil and playfield soil .....	9-14.1(4)
pruning and staking .....	8-02.3(7)
relocate tree .....	8-02.3(22)
removing / trimming trees near overhead wires .....	1-07.16(2)
removing / trimming trees near overhead wires – notification requirement .....	1-07.28
seed mixes .....	9-14.2
shear boards .....	9-14.8
sod .....	9-14.6(8)
soil amendments .....	8-02.3(10)
stakes, guys, wrapping .....	9-14.7
substitution of plants .....	9-14.6(6)
temporary storage of plant materials .....	9-14.6(7)
topsoil, types A and B .....	9-14.1(1) and (2)
tree grates .....	8-02.3(21), 9-14.14

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

tree root pruning .....	8-02.3(23)
tunneling or trenching, and tree roots .....	1-07.16(2)
turf reinforcement.....	9-14.10
Roadway	
classification of excavation .....	2-03.1(2)
cut slope treatment .....	2-03.3(5)
ditches.....	2-03.3(9)
embankment construction.....	2-03.3(14)
excavation and embankment.....	2-03
rock cuts.....	2-03.3(2)
Rock drilling safety requirements .....	1-07.21
Rock facing .....	2-08, 9-03.17
Rollers	
asphalt concrete pavement construction .....	5-04.3(4)B
bituminous surface treatment.....	5-02.3(1)
Rubber gasketed joint applications	
ABS composite pipe .....	9-05.15
concrete pipe .....	9-05.7(3)
culvert, concrete.....	7-02.3(1)B2
ductile iron sewer and storm drain .....	9-05.13
manhole, precast .....	7-05.3(1)K, 9-12.4(1)
material specifications .....	9-04.4
pedestrian push button assembly .....	9-32.5
water main, insulating couplings .....	9-30.2(7)A
water main, non-restrained ductile iron pipe .....	9-30.1(1)
Rubberized asphalt for crack sealing .....	5-04.3(5)D, 9-04.10

## S

Sack riprap .....	8-15.3(4), 9-13.4
Safety observer, electrical – see "Electrical safety observer"	
Safety Rules and Standards .....	1-07.1(2)
Safety systems for trench excavation .....	7-17.3(1)A7a
Safety watch, construction in electrical vault – see "Electrical safety observer"	
Sales tax, state .....	1-07.2
Salvage of usable materials .....	2-02.3(7)
Samples and sampling of materials	
acceptance .....	1-06.2
inspection of work and material .....	1-05.6
Sand drainage blanket .....	2-03.3(14)I, 9-03.13(2)
Sand/silt ratio .....	9-00.6
Sanitation, contractor requirements .....	1-07.4
Sanitary sewer spill, notification requirement .....	1-07.28
Sanitary sewers - see "Storm drain and sanitary sewer"	
Sawcutting, planing, and grinding byproducts, pollution control .....	1-07.5(2)
Sawing and line drilling .....	2-02.3(6)
Scales, weighing equipment .....	1-09.2
Schedule, critical path .....	1-08.3(1)
Scope of payment .....	1-09.3
Scope of work .....	1-04
Screw threads, standard .....	6-03.3(26)
Seal, foundation, placing concrete in .....	6-02.3(6)C
Seals, copper .....	9-06.13
Seattle Monorail, construction near – notification requirement .....	1-07.28
Seeding	
erosion control .....	8-01.3(4)
lawn installation .....	8-02.3(14)
Selected material .....	2-03.3(10)
Service connection transfers, water .....	7-15
Sewer (defined term) .....	1-01.3
Sewer cleanouts .....	7-19
Sewer, sanitary spill - notification requirement .....	1-07.28
Sewers, sanitary and combined - see "Storm drain and sanitary sewer"	
Shear	
allowable stresses in formwork and falsework .....	6-02.3(17)C
boards, erosion control .....	8-01.3(12), 9-14.8
connectors, welded .....	9-06.15
gate in flow control structure .....	9-05.19
hydrant shear block .....	9-14.3(1)
keys at concrete construction joints .....	6-02.3(12)
Shop drawings	
defined term .....	1-01.3
general submittal requirements .....	1-05.3(2)
Shoring and cofferdams, structure excavation .....	2-09.3(3)D
Shoulder, ballast .....	4-04.3(11), 9-03.9(2)
Shutdown of water main or service - construction notification requirement .....	1-07.28
Side sewers .....	7-18

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Sidewalk, close or restrict access during construction – notification requirement .....	1-07.28
Sidewalks, cement concrete .....	8-14
Sieve analysis for aggregate, methods .....	9-03.15
Sign, overhead interior illuminated .....	8-31.3(6), 9-32.7
Sign posts, timber .....	9-28.2(1)
Signal controller - see "Traffic signal controller"	
Signal system, traffic – construction requirements .....	8-31
check-out procedure .....	8-31.3(15)
controller assembly .....	8-31.3(2)
detector loops .....	8-31.3(5)
field tests .....	8-31.1(5)D
final inspection and as-built drawing .....	8-31.3(17)
grounding and bonding .....	8-31.3(10)
interconnect cable .....	8-31.3(8)
intersection check-out & turn-on procedure .....	8-31.3(1)
pedestrian pushbutton assembly .....	8-31.3(4)
pole line hardware installation .....	8-31.3(11)
relocating equipment .....	8-31.3(12)
signal heads, vehicle and pedestrian .....	8-31.3(3)
signal wiring .....	8-31.3(9)
turn-on/cut-over procedure .....	8-31.3(16)
Signal system, traffic – material requirements .....	9-32
detector loops .....	9-32.6
interconnect cable .....	9-32.9
overhead interior illuminated sign .....	9-32.7
pedestrian heads .....	9-32.4
pedestrian push button assembly .....	9-32.5
signal wiring .....	9-32.11
span wire .....	9-32.12
vehicle heads .....	9-32.3
Signs and posts, street and traffic .....	8-21, 9-28
Site conditions, differing .....	1-04.7
Site, examination of bid documents and .....	1-02.4
Site reclamation – borrow, quarry, pit .....	3-03
Sleeve	
for irrigation pipe .....	9-15.3
for parking meter post .....	9-28.2(2)
for water main – ductile iron pipe fittings .....	9-30.2(1)
for water main – heat shrink joint .....	9-30.1(6)E
for water main – insulating flange kits .....	9-30.2(7)B
for water main – joint bond cable .....	9-30.10
for water main – thermite weld adapter .....	9-30.11(2)
Slope protection	
concrete .....	8-16
wire mesh .....	8-29
Slump test	
pavement concrete consistency .....	5-05.3(2)
structure concrete consistency .....	6-02.3(4)E
Smoothness	
asphalt concrete pavement surface .....	5-04.3(13)
concrete pavement surface .....	5-05.3(12)
Source of supply and quality of materials .....	1-06.1
Special provisions (defined term) .....	1-01.3
Specifications	
coordination with contract .....	1-04.2
defined term .....	1-01.3
Stairway, cement concrete .....	8-18
Stakes, construction .....	1-05.5
State sales tax .....	1-07.2
Steel structures	
construction requirements .....	6-03
materials .....	9-06
Steel reinforcing bar ("rebar") .....	9-07
Stepped slope construction .....	2-03.3(18)
Steps, cement concrete .....	8-18
Steps, handholds & ladders for sewer & drainage structures .....	7-05.3(1)Q, 9-12.2
Storm drain and sanitary sewer pipe construction requirements .....	7-17
backfilling trenches .....	7-17.3(3)
bedding .....	7-17.3(1)B
cleaning and testing .....	7-17.3(4)
pipe installation .....	7-17.3(2)
tee, cut-in .....	7-17.3(2)C3
television inspection .....	7-17.3(4)I
temporary sewer bypass .....	7-17.3(2)K
trench excavation .....	7-17.3(1)A
trench safety systems .....	7-17.3(1)A7a
trench support systems .....	7-17.3(1)A7b

## 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

underground construction .....	7-17.3(2)J
Storm drain and sanitary sewer – pipe materials	
pipe gaskets – flexible plastic .....	9-04.5
pipe gaskets - rubber .....	9-04.4
pipe materials .....	9-05
Straw mulch .....	9-14.4(1)
Strength requirements of	
pavement concrete .....	5-05.3(1)
structural concrete .....	6-02.3(2)A
Structural backfill, Controlled density fill (CDF) – see Controlled density fill	
Structural plate pipe, pipe arch, arch, and underpass .....	7-03
Structural steel and related materials .....	9-06
Structure excavation .....	2-09
Structures - general requirements .....	6-01
Subcontracting requirements .....	1-08.1(3)
Subcontractor / bidder list .....	1-02.9(3)
Subcontractor - defined term) .....	1-01.3
Subcontractors, prompt payment to materialmen and .....	1-09.14
Subgrade preparation .....	2-06
Submittal, bid .....	1-02.9
Submittal prepared by professional engineer .....	1-05.3(2)F
Submittals, contractor required .....	1-08.3
Subsealing .....	5-01
Substantial completion date .....	1-05.11(1)
Substantial completion (defined term).....	1-01.3
Substitution	
"or equal" .....	1-06.1
shop drawings requirements .....	1-05.3(2)
structural steel sections .....	6-03.3(8)
Subsurface information .....	1-02.4(2)
Subsurface drain .....	7-01, 9-05.2
Superintendents, labor, and equipment, contractor .....	1-05.13
Superstructure (defined term) .....	1-01.3
Supplemental contract (defined term) .....	1-01.3
Support system, trench excavation .....	7-17.3(1)A7b
Support wall and edge wall .....	5-05.3(23)C
Surety (defined term) .....	1-01.3
Surfacing, ballasting and crushed .....	4-04
Surplus material, disposal .....	2-03.3(7)
Survey, construction stakes .....	1-05.5
Suspension of work .....	1-08.6

## T

Tack coat, asphalt paving .....	.5-04.3(5)B4
Taste and odor testing for water mains .....	7-11.2(2), 7-11.2(3)
Tax, state sales .....	1-07.2
Tee, cut-in on existing or new sewer/drainage pipe .....	7-17.3(2)C3
Temperature, normal for bridge drawing dimensions .....	6-01.15
Temporary concrete barrier	
construction requirement .....	6-10.3(5)
for traffic control .....	1-07.23(1)
Temporary traffic control .....	1-07.23, 1-10
Temporary water service connection .....	7-10.3(6)
Temporary water pollution/erosion control .....	1-07.15
Terminated or deleted work .....	1-09.5
Termination of contract .....	1-08.10
Test piles .....	6-05.3 (10)
Thermoplastic powder coating for water main .....	9-30.1(6)C
Three edge bearing test, concrete pipe .....	9-05.3(2)C
Tie bars, pavement .....	5-05.3(10), 9-07.6
Timber and lumber materials .....	9-09
Timber structures .....	6-04
Time, contract	
defined term .....	1-01.3
extensions and delays .....	1-08.8
for completion .....	1-08.5
Time to execute agreement form .....	1-03.3(2)
Topsoil and playfield soil .....	8-01.3(2), 9-14.1
Traffic buttons and lane markers .....	8-08, 9-21
Traffic control during construction .....	1-07.23, 1-10
Traffic control for traffic signal construction .....	8-31.3(1)A
Traffic curb, precast and block .....	8-07, 9-18
Traffic signal controller assembly .....	8-31.3(2)
Traffic signals - see "Signal system, traffic"	
Training and promotion .....	1-07.11(7)
Traps, outlet .....	9-12.12

# 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

Traveled way (defined term) .....	1-01.3
Treated timber, preservative treatment .....	9-09.3
Treatment, protective - aluminum pipe in contact with portland cement concrete .....	7-02.3(1)C3b
Tree, relocate .....	8-02.3(22)
Tree root pruning and excavation .....	8-02.3(23)
Tree trimming and overhead wires – notification requirement .....	1-07.28
Trench backfill, controlled density fill (CDF) – see Controlled density fill	
Trench excavation, sewer and storm drain	
pipe connections, catch basin & inlet .....	7-08.3(1)
detention pipe .....	7-16.3(1)
general .....	2-09.3(4)
protective system .....	7-17.3(1)A7
safety system .....	7-17.3(1)A7a
side sewer .....	7-18.3(2)
storm drain & sewer .....	7-17.3(1)
support system .....	7-17.3(1)A7b
Trench excavation, water main .....	6-10.3(5)
construction requirements .....	7-10.3(7)
protective system .....	7-10.3(7)G
safety system .....	7-10.3(7)G1
support system .....	7-10.3(7)G2
Trestle ends, embankment at bridge and .....	2-03.3(14)J
Trimming and Cleanup .....	2-11

## U

Unauthorized work, removal of .....	1-05.6, 1-05.7
Unavoidable delay .....	1-08.6, 1-08.8
Uncovering work, payment for .....	1-05.6
Underground construction .....	7-17.3(2)J
Underground utility clearances - see "Clearances with utilities"	
Underground utilities locate (one call locate) – notification requirement .....	1-07.28
Underpass, drainage .....	7-03
Underweighing / overweighing & pay adjustment .....	1-09.2(5)
Unfinished cement concrete pavement .....	5-05.3(20)
Urethane paint, moisture-cured .....	6-07.3(7), 9-08.2 item 18.
Usable materials, salvage of .....	2-02.3(7)
Use of buildings or other structures .....	1-04.9
Use of explosives .....	1-07.22
Use of materials found on the project site .....	1-04.10
Utilities and similar facilities .....	1-07.17
Utilities notifications requirements for various types constructions .....	1-07.28

## V

Valves for irrigation .....	9-15.7
Valves for water mains .....	7-12, 9-30.3
Vault, electrical & electrical safety observer, notification requirement .....	1-05.5(2), 1-07.28
Vertical drains, prefabricated .....	2-03.3(14)I
Vibratory rollers .....	2-03.3(14)B, 5-04.3(4)B
Vitrified clay pipe .....	9-05.8

## W

Wage rates, prevailing .....	1-07.9(1)
Wages .....	1-07.9
Wall	
concrete slab wall .....	8-15.3(5)
curb wall, edge wall, and support wall .....	5-05.3(23)
head wall .....	7-03.3(5)
retaining wall for fire hydrants .....	7-14.3(9)
Warranty and guaranty .....	1-05.10
Waste sites, disposal of waste, debris, surplus material .....	2-01.2, 2-03.3(7)
Wasting excavated material .....	2-03.3(8)
Watch, electrical safety – see "Electrical safety observer"	
Water	
for irrigation .....	9-25.2
for pavement concrete .....	5-05.3(5), 9-25.1
for structural concrete .....	6-02.3(4), 9-25.1
Water main and related - construction requirements	
clearances with other utilities .....	1-07.17(2)A
excavation, bedding, backfill .....	7-10
hydrants .....	7-14
materials .....	9-30
pipe installation, pressure and taste testing, connections, electrolysis monitoring .....	7-11
salvage of removed water main and related materials .....	2-02.3(7)B
trench excavation, bedding, and backfill .....	7-10

## 2003 City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction

valves .....	7-12
Water quality, environmental construction requirements .....	1-07.5(2)
Water pollution / erosion control, temporary construction controls .....	1-07.15
Watering as part of various constructions .....	2-07
Waterproofing .....	6-08, 9-11
Waterstop, plastic .....	9-24
Wave equation analysis, piling .....	6-05.3
Weather limitations	
asphalt pavement construction .....	5-04.3(16)
bituminous surface treatment .....	5-02.3(10)
concrete pavement construction .....	5-05.3(14)
placing structural concrete .....	6-02.3(6)B
suspension of work .....	1-08.6
Weep holes	
concrete slab riprap .....	8-15.3(5)
concrete structures .....	6-02.3(22)
Weighing equipment .....	1-09.2
Welds	
reinforcing steel .....	6-02.3(24)F
structural steel .....	6-03.3(25)
Wheelchair ramps (curb ramps) .....	8-14.3(7), 8-14.3(8)
Wheel guards and railings, timber .....	6-04.3(13), 6-06.3(1)
Wire, cold drawn for reinforcing .....	9-07.9
Wire fence .....	8-12, 9-16.2
Wire mesh slope protection .....	8-29
Wiring, fusing and splicing, electrical .....	8-30.3(5), 9-31.5-6
Withdrawal or modification of bid .....	1-02.10
Women and minority business enterprise requirements .....	1-07.12
Work	
changes .....	1-04.4
completion .....	1-05.12
contractor's responsibility for damage and .....	1-07.13
defective and unauthorized .....	1-05.7
defined term .....	1-01.3
delays, time extensions and- entitlement & compensation .....	1-08.8
differing site conditions .....	1-04.7
force account payment .....	1-09.6
increased or decreased quantities .....	1-04.6
inspection of .....	1-05.6
samples and sampling .....	1-06.2
suspension .....	1-08.6
time for completion .....	1-08.5
Workers benefits - see "Insurance"	
Working day, defined term .....	1-01.3
Working hours .....	1-08.1(4)
Written notice (defined term) .....	1-01.3
Written notice	
defined term .....	1-01.3
method of serving .....	1-05.15

X, Y, Z (none)

Can't find an item in the Standard Specifications Index? Found an error for an item listed in the Standard Specifications Index? Help us improve the Index by sending us your suggestion or comment by using the "comment" feature at <http://www.seattle.gov/util/engineering>.